

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1 1. (Original) A method of performing communications in a wireless network,
2 comprising:
3 determining if a mobile station is subscribed to a first level of service or a second
4 level of service;
5 communicating packet-switched traffic; and
6 releasing a logical connection between the mobile station and a wireless access
7 system according to a first procedure if subscribed to the first level of service and according to a
8 second, different procedure if subscribed to the second level of service.

1 2. (Currently Amended) The method of claim 1, wherein the determining,
2 ~~exchanging~~ communicating, and releasing acts are performed by the mobile station.

1 3. (Original) The method of claim 1, wherein releasing the logical connection
2 comprises releasing a temporary block flow.

1 4. (Original) The method of claim 3, wherein releasing the temporary block flow
2 comprises releasing an uplink temporary block flow.

1 5. (Currently Amended) The method of claim 3, wherein ~~exchanging~~
2 communicating the packet-switched traffic comprises carrying the packet-switched traffic in one
3 or more channels defined by a protocol selected from the group consisting of a General Packet
4 Radio Service (GPRS) protocol, an Enhanced GPRS protocol, and a Global System for
5 Mobile/Enhanced Data Rate for Global Evolution Radio Access Network (GERAN) protocol.

1 6. (Currently Amended) The method of claim 1, further comprising:
2 ~~providing a timer; and~~
3 if the mobile station is subscribed to the first level of service, starting ~~the timer a~~
4 timer in the mobile station after detecting there is no further data to send,
5 wherein releasing the logical connection is performed after expiration of the
6 timer.

1 7. (Original) The method of claim 6, wherein if the mobile station is subscribed to
2 the second level of service, the logical connection is released in response to detecting there is no
3 further data to send without use of the timer.

1 8. (Original) The method of claim 7, wherein detecting there is no further data to
2 send is performed by detecting if a send buffer is empty or is about to become empty.

1 9. (Original) A system for providing communications in a wireless network,
2 comprising:
3 a controller operable to determine if a mobile station is subscribed to a first level
4 of service or a second level of service; and wherein
5 the controller operable to further determine when data transmission to the mobile
6 station is about to end, the controller adapted to generate filler data for sending to the mobile
7 station if the mobile station is subscribed to the first level of service to enable a wireless
8 connection to the mobile station to be maintained.

1 10. (Original) The system of claim 9, wherein the controller is adapted to not
2 generate filler data for sending to the mobile station if the mobile station is subscribed to the
3 second level of service.

1 11. (Original) The system of claim 9, further comprising a timer to define a time
2 period during which the filler data is generated.

1 12. (Original) The system of claim 11, wherein the controller is adapted to stop
2 sending the filler data after the timer expires.

1 13. (Original) The system of claim 9, wherein the controller comprises a serving
2 General Packet Radio Service support node control module.

1 14. (Original) The system of claim 9, wherein the controller is adapted to determine
2 end of data transmission by determining if a send buffer in a wireless access system is empty or
3 about to be empty.

1 15. (Original) The system of claim 14, further comprising a storage module to store
2 information pertaining to one or more characteristics of the send buffer,
3 the controller adapted to determine if the send buffer is empty or about to be
4 empty based on the one or more characteristics.

1 16. (Original) The system of claim 15, wherein the one or more characteristics
2 comprise one or more of a size of the send buffer and a leaky rate of the send buffer.

1 17. (Original) The system of claim 9, wherein the wireless connection comprises a
2 temporary block flow.

1 18. (Currently Amended) An article comprising at least a storage medium containing
2 instructions that when executed cause a core network system to:
3 send packet-switched data from the core network system to a wireless access
4 system for communicating to a mobile station;
5 determine by the core network system if a send buffer in the wireless access
6 system to store the data is about to become empty; and
7 if the send buffer is about to become empty, send, by the core network system,
8 filler data to the wireless access system to maintain a connection between the wireless access
9 system and the mobile station.

1 19. (Currently Amended) The article of claim 18, wherein the instructions when
2 executed cause the core network system to send filler data to maintain a temporary block flow.

1 20. (Currently Amended) The article of claim 18, wherein the instructions when
2 executed cause the core network system to further start a timer to provide a time period during
3 which the filler data is to be sent from the core network system to the wireless access system.

1 21. (Currently Amended) The article of claim 18, wherein the instructions when
2 executed cause the core network system to further determine if the mobile station is subscribed
3 to a first service level and to send the filler data in response to determining the mobile station is
4 subscribed to the first service level.

1 22. (Currently Amended) A mobile station, comprising:
2 an interface block to a wireless link to a wireless access system;
3 a controller adapted to determine if the mobile station is subscribed to a first level
4 of service or a second level or service,
5 the controller being adapted to release a ~~logical connection~~ temporary block flow
6 on the wireless link according to a first procedure if subscribed to the first level of service and
7 according to a second, different procedure if subscribed to the second level of service.

1 23. (Currently Amended) The mobile station of claim 22, wherein the ~~logical~~
2 ~~connection~~ temporary block flow is defined by a packet-switched wireless protocol selected from
3 the group consisting of a General Packet Radio Service protocol, an Enhanced General Packet
4 Radio Service protocol, and a Global System for Mobile/Enhanced Data Rate for Global
5 Evolution Radio Access Network protocol.

1 24. (New) The article of claim 18, wherein the core network system is a serving
2 GPRS support node (SGSN).